

## Comment on ACSF 02-03 (D)

### Emergency Test 1 (EM1) – ACSF 02-03

Drive the vehicle with activated ACSF at least 1 min behind a lead vehicle. If the time gap is not selected by the system, the vehicle shall drive at a gap of 3 s behind the lead vehicle. The lead vehicle shall drive within the lane markings on a track with road markings at each side of the lane at a speed 10 km/h below  $v_{smax}$ . Then the lead vehicle decelerates with  $6 \text{ m/s}^2$  and with a mean brake jerk of  $6 \text{ m/s}^3$  in the first second of braking. The requirements of the test are fulfilled if the vehicle does not collide with the lead vehicle.

#### Proposal:

### 3.3. Emergency Tests

#### 3.3.1. Emergency Test EM1

- 3.3.1.1. The subject vehicle and the lead vehicle shall travel in a straight line, in the same direction, for at least [1] minute prior to the functional part of the test, with a subject vehicle to target centreline offset of not more than 0.5m.
- 3.3.1.2. The functional part of the test shall start with the subject vehicle and the lead vehicle travelling at a speed 10 km/h below  $v_{smax}$  and a separation distance of not more than [100 m] or a time span of not more than [3] sec between them.
- 3.3.1.3. From the start of the functional part of the test until the lead vehicle starts decelerating as defined in paragraph 3.3.1.4, there shall be no adjustment to any subject vehicle control by the driver.
- 3.3.1.4. The lead vehicle shall drive within the lane markings on a track with road markings. Then the lead vehicle decelerates with  $6 \text{ m/s}^2$  and with a mean brake jerk of  $6 \text{ m/s}^3$  in the first second of braking until standstill.
- 3.3.1.5. The braking phase shall result in the subject vehicle not impacting the lead vehicle.